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Range: from  to  ☐ Reverse complemented strand Features: ☐ SNP

☐ CDD ☒ MGC ☐ HPRD ☐ STS

☐ 1: [X52066](#). Reports *Clostridium botul*...[gi:40381]

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LOCUS CBBOTAG 4292 bp DNA linear BCT 12-SEP-1993  
 DEFINITION *Clostridium botulinum* botA gene for type A neurotoxin.  
 ACCESSION X52066 X52088  
 VERSION X52066.1 GI:40381  
 KEYWORDS botA gene; neurotoxin; secreted protein.  
 SOURCE *Clostridium botulinum*  
 ORGANISM *Clostridium botulinum*  
 Bacteria; Firmicutes; Clostridia; Clostridiales; Clostridiaceae;  
 Clostridium.  
 REFERENCE 1 (bases 1 to 4292)  
 AUTHORS Thompson,D.E., Brehm,J.K., Oultram,J.D., Swinfield,T.J.,  
 Shone,C.C., Atkinson,T., Melling,J. and Minton,N.P.  
 TITLE The complete amino acid sequence of the *Clostridium botulinum* type  
 A neurotoxin, deduced by nucleotide sequence analysis of the  
 encoding gene  
 JOURNAL Eur. J. Biochem. 189 (1), 73-81 (1990)  
 PUBMED [2185020](#)  
 REFERENCE 2 (bases 1 to 4292)  
 AUTHORS Minton,N.P.  
 TITLE Direct Submission  
 JOURNAL Submitted (08-JAN-1990) Minton N.P., PHLS Centre for Applied  
 Microbiology & Research, Molecular Genetics Group, Division of  
 Biotechnology, Porton Down, Salisbury SP4 0JG Wiltshire, U K  
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